

**COUNTY OF SAN LUIS OBISPO BOARD OF SUPERVISORS  
AGENDA ITEM TRANSMITTAL**

(1) DEPARTMENT General Services Agency	(2) MEETING DATE 5/6/2014	(3) CONTACT/PHONE Janette Pell, General Services Agency Director 805-781-5200	
(4) SUBJECT Request to amend the Fixed Asset List for Fund Center 114-General Services Agency – Information Technology to include four Storage Area Network (SAN) switches in the amount of \$32,000 and one power distribution unit (PDU) in the amount of \$34,000 for hardware to support the County's data center infrastructure. All Districts.			
(5) RECOMMENDED ACTION It is recommended that the Board amend the fixed asset list for Fund Center 114- General Services Agency – Information Technology to include four Storage Area Network (SAN) switches and one Power Distribution Unit (PDU) to support the County's data center infrastructure. The funds will be moved from salary savings into the fixes asset account.			
(6) FUNDING SOURCE(S) FC114	(7) CURRENT YEAR FINANCIAL IMPACT \$66,000	(8) ANNUAL FINANCIAL IMPACT \$0.00	(9) BUDGETED? Yes
(10) AGENDA PLACEMENT <input checked="" type="checkbox"/> Consent <input type="checkbox"/> Presentation <input type="checkbox"/> Hearing (Time Est. ____ ) <input type="checkbox"/> Board Business (Time Est.____)			
(11) EXECUTED DOCUMENTS <input type="checkbox"/> Resolutions <input type="checkbox"/> Contracts <input type="checkbox"/> Ordinances <input checked="" type="checkbox"/> N/A			
(12) OUTLINE AGREEMENT REQUISITION NUMBER (OAR)  N/A		(13) BUDGET ADJUSTMENT REQUIRED? BAR ID Number: 1314114 <input type="checkbox"/> 4/5 Vote Required <input checked="" type="checkbox"/> N/A	
(14) LOCATION MAP  N/A	(15) BUSINESS IMPACT STATEMENT?  No	(16) AGENDA ITEM HISTORY <input checked="" type="checkbox"/> N/A    Date: _____	
(17) ADMINISTRATIVE OFFICE REVIEW			
(18) SUPERVISOR DISTRICT(S) All Districts			

# County of San Luis Obispo



TO: Board of Supervisors

FROM: General Services Agency / Janette Pell, General Services Agency  
805-781-5200

DATE: 5/6/2014

SUBJECT: Request to amend the Fixed Asset List for Fund Center 114-General Services Agency – Information Technology to include four Storage Area Network (SAN) switches in the amount of \$32,000 and one power distribution unit (PDU) in the amount of \$34,000 for hardware to support the County's data center infrastructure. All Districts.

## **RECOMMENDATION**

It is recommended that the Board amend the fixed asset list for Fund Center 114- General Services Agency – Information Technology to include four Storage Area Network (SAN) switches and one Power Distribution Unit (PDU) to support the County's data center infrastructure. The funds will be moved from salary savings into the fixed asset account.

## **DISCUSSION**

General Services Agency – Information Technology (GSA-IT) supports and maintains the County's central computing environment which is utilized by all departments and employees. The computing environment is comprised of a virtual server infrastructure supporting over 430 virtual Microsoft servers. The virtual server infrastructure consists of three main components:

- Thirty IBM physical servers
- Two IBM disk arrays that provide ninety terabytes of disk storage
- Eight IBM Storage Area Network (SAN) switches that interconnect the physical servers to the disk storage arrays

These three components create the virtual server infrastructure required for most of the County's departmental and enterprise computing systems and databases including: Integrated Document Management system, Lotus Notes email, Criminal Justice Information Systems, the District Attorney Case Management System, Behavioral Health Electronic Health Records Systems, Geographic Information Systems, and SAP Financial & Payroll Systems in addition to generic Microsoft file and print services.

The four requested SAN switches will facilitate future growth of the virtual server infrastructure and the addition of new IBM physical servers as demand increases for new computer services and data storage. Additionally, they will enable greater flexibility for balancing the computing workload across the virtual servers and enhance storage performance of the disk arrays resulting in faster application performance and data access for end users.

The Power Distribution Unit (PDU) is a critical physical support component within the Data Center and is necessary to filter and regulate all electrical power that comes into the Data Center from external sources. It provides surge protection against power fluctuations and shields all devices housed in the Data Center against external interruption and disturbances. As such, it is a single point of failure for all computer servers, storage arrays, and network equipment located within the Data Center and is essential to the ongoing computing services provided by GSA-IT to county departments and users.

The current PDU was purchased in 1984 and is still functioning. However, the vendor recently notified the County that this model is no longer factory supported and repair parts are unavailable in case of failure. This lack of support puts the Data Center at risk as a PDU failure would create an electrical power outage affecting the entire Data Center. This would cause all computing systems housed in the Data Center to fail leaving the County without mission critical computer applications such as those in the virtual server environment as well as legacy Mainframe applications used by the Law and Justice Community and Tax Collector/Assessor for an extended timeframe. By replacing the current PDU with a new factory-supported model, GSA-IT can avoid the risk of potential widespread Data Center electrical system disruption due to hardware failure.

#### **OTHER AGENCY INVOLVEMENT/IMPACT**

None

#### **FINANCIAL CONSIDERATIONS**

The four SAN switches and PDU will be purchased with FC 114-General Services Agency-Information Technology funding that is currently budgeted for salaries and benefits. Due to retirements and staff departures there is savings in salaries and benefits to support this needed fixed asset acquisition. The cost of the four SAN switches is estimated at \$32,000 for hardware and the cost of the PDU is \$34,000 for hardware and professional services to perform the installation. There is no increase in annual maintenance costs as the SAN switches are already included in the existing IBM hardware maintenance contract as well as the PDU being covered by the existing maintenance contract.

An Administrative Budget Adjustment will be processed to move savings in salary and benefit accounts into capital outlay to pay for the requested assets.

#### **RESULTS**

Approval of this request for the purchase of four SAN switches and PDU will enable the virtual server infrastructure to support additional future demand for services and greatly minimize the risk of a loss of computing capability due to electrical power disruption. Additionally, it will increase application and departmental file server performance with higher throughput between the servers and their SAN storage devices as well as reducing potential mission critical computer applications failure.

This meets the County's Community-wide Results for a Well-Governed Community: "The County will provide high quality "results oriented" services that are responsive to community desires."

#### **ATTACHMENTS**

None